# NEW CONSTRUCTION and
# MINOR SOURCE OPERATING PERMIT
# OFFICE OF AIR MANAGEMENT

## Tyson Foods, Inc. - Ramsey Feed Mill
## State Road 64
## Ramsey, Indiana 47166

(herein known as the Permittee) is hereby authorized to construct and operate subject to the conditions contained herein, the emission units described in Section A (Source Summary) of this permit.

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

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| Operation Permit No.: MSOP 061-11352-00010 | |
| Issued by:<br>Paul Dubenetzky, Branch Chief<br>Office of Air Management | Issuance Date: |

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## SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

### A.1 General Information [326 IAC 2-5.1-3(c)] [326 IAC 2-6.1-4(a)]

The Permittee owns and operates an animal feed mill.

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| Authorized Individual: | Kurt Spond |
| Source Address: | State Road 64, Ramsey, Indiana |
| Mailing Address: | P.O. Box 430, Corydon, Indiana 47112 |
| SIC Code: | 2048 |
| County Location: | Harrison |
| County Status: | Attainment for all criteria pollutants |
| Source Status: | Minor Source, under Part 70 Permit Program<br>Minor Source, under PSD Rules |

### A.2 Emissions units and Pollution Control Equipment Summary

This stationary source is approved to construct and operate the following modified emissions units and pollution control devices:

(a) one (1) 40 ton/hr pellet mill, designated as unit 3A;

(b) one (1) 40 ton/hr pellet cooler, designated as unit 3B, controlled by multiple cyclones and exhausting to a stack designated as 03;

(c) one (1) 35 ton/hr hammermill, designated as unit 2B.

This stationary source is also approved to operate the following existing emissions units and pollution control devices:

(d) one (1) receiving unit with a maximum capacity of 200 ton/hr, designated as unit 1;

(e) one (1) pneumatic receiving and storage system designated unit 7.

(f) one (1) 25 ton/hr hammermill, designated as unit 2A;

(g) one (1) pellet distributor with a maximum throughput of 40 tons per hour, designated as unit 4 and exhausting to a stack designated 04;

(h) one (1) feed pellet truck loadout unit;

(i) one (1) column grain dryer with a 0.18 million Btu per hour burner firing propane and a maximum capacity of 3600 bushels per hour; and

(j) one (1) propane fired boiler designated as unit 5 with a maximum heat input capacity of 8.37 million British thermal units per hour exhausting through stack 05.

## SECTION B GENERAL CONSTRUCTION CONDITIONS

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1.1 AND 40 CFR 52.780, WITH CONDITIONS LISTED BELOW.

B.1 Permit No Defense [IC 13]

This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

B.2 Definitions

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, any applicable definitions found in IC 13-11, 326 IAC 1-2, and 326 IAC 2-1.1-1 shall prevail.

B.3 Effective Date of the Permit [IC13-15-5-3]

Pursuant to IC 13-15-5-3, this permit becomes effective upon its issuance.

B.4 Revocation of Permits [326 IAC 2-1.1-9(5)]

Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the Commissioner may revoke this permit if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

B.5 Modification to Permit [326 IAC 2]

Notwithstanding the Section B condition entitled “Minor Source Operating Permit”, all requirements and conditions of this construction permit shall remain in effect unless modified in a manner consistent with procedures established for modifications of construction permits pursuant to 326 IAC 2 (Permit Review Rules).

B.6 Minor Source Operating Permit [326 IAC 2-6.1]

This document shall also become a minor source operating permit pursuant to 326 IAC 2-6.1 when, prior to start of operation, the following requirements are met:

(a) The attached Affidavit of Construction shall be submitted to the Office of Air Management (OAM), Permit Administration & Development Section.

(1) If the Affidavit of Construction verifies that the facilities covered in this Construction Permit were constructed as proposed in the application, then the facilities may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM.

(2) If the Affidavit of Construction does not verify that the facilities covered in this Construction Permit were constructed as proposed in the application, then the Permittee shall receive an Operation Permit Validation Letter from the Chief of the Permit Administration & Development Section prior to beginning operation of the facilities.

(b) If construction is completed in phases; i.e., the entire construction is not done continuously, a separate affidavit must be submitted for each phase of construction. Any permit conditions associated with operation start up dates such as stack testing for New Source Performance Standards (NSPS) shall be applicable to each individual phase.

(c) Upon receipt of the Operation Permit Validation Letter from the Chief of the Permit Administration & Development Section, the Permittee shall attach it to this document.

(d) The operation permit will be subject to annual operating permit fees pursuant to 326 IAC 2-1.1-7(Fees)**.**

(e) Pursuant to 326 IAC 2-6.1-7, the Permittee shall apply for an operation permit renewal at least ninety (90) days prior to the expiration date established in the validation letter. If IDEM, OAM, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied. The operation permit issued shall contain as a minimum the conditions in Section C and Section D of this permit.

## SECTION C SOURCE OPERATION CONDITIONS

Entire Source

C.1 PSD Minor Source Status [326 IAC 2-2] [40 CFR 52.21]

(a) The total source potential to emit of particulate matter (PM) is less than 250 tons per year. Therefore the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.21 will not apply.

(b) Any change or modification which may increase potential to emit to 250 tons per year from this source, shall cause this source to be considered a major source under PSD, 326 IAC 2-2 and 40 CFR 52.21, and shall require approval from IDEM, OAM prior to making the change.

C.2 Preventive Maintenance Plan [326 IAC 1-6-3]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMP) after issuance of this permit, including the following information on each emissions unit:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions;

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

(b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that failure to implement the Preventive Maintenance Plan does not cause or contribute to a violation of any limitation on emissions or potential to emit.

(c) PMP's shall be submitted to IDEM, OAM, upon request and shall be subject to review and approval by IDEM, OAM. IDEM, OAM, may require the Permittee to revise its Preventive Maintenance Plan whenever lack of proper maintenance causes or contributes to any violation.

C.3 Permit Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]

(a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application should be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1.

(c) The Permittee shall notify the OAM within thirty (30) calendar days of implementing a

notice-only change. [326 IAC 2-6.1-6(d)]

C.4 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [326 IAC 2-6.1-5(a)(4)]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAM, U.S. EPA, or an authorized representative to perform the following:

(a) Enter upon the Permittee's premises where a permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under this title or the conditions of this permit or any operating permit revisions;

(c) Inspect, at reasonable times, any processes, emissions units (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit or any operating permit revisions;

(d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

C.5 Transfer of Ownership or Operation [326 IAC 2-6.1-6(d)(3)]

Pursuant to [326 IAC 2-6.1-6(d)(3)] :

(a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAM, Permits Branch, within thirty (30) days of the change.

(b) The written notification shall be sufficient to transfer the permit to the new owner by an notice-only change pursuant to 326 IAC 2-6.1-6(d)(3).

(c) IDEM, OAM, shall issue a revised permit.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

C.6 Permit Revocation [326 IAC 2-1-9]

Pursuant to 326 IAC 2-1-9(a)(Revocation of Permits), this permit to construct and operate may be revoked for any of the following causes:

(a) Violation of any conditions of this permit.

(b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.

(c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.

(d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.

(e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

C.7 Visible Emissions Limitations [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Visible Emissions Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

(a) Visible emissions shall not exceed an average of forty percent (40%) opacity in twenty-four (24) consecutive readings, as determined in 326 IAC 5-1-4.

(b) Visible emissions shall not exceed sixty percent (60%) opacity for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) in a six (6) hour period.

C.8 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

C.9 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted by using good engineering practices (GEP) pursuant to 326 IAC 1-7-3.

**Testing Requirements**

C.10 Performance Testing [326 IAC 3-6]

(a) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than180 days after initial start-up, if specified in Section D of this approval. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAM.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The Permittee shall submit a notice of the actual test date to the above address so that it is received at least two weeks prior to the test date.

(b) All test reports must be received by IDEM, OAM, within forty-five (45) days after the completion of the testing. An extension may be granted by the IDEM, OAM, if the source submits to IDEM, OAM, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

The documentation submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

**Compliance Monitoring Requirements**

C.11 Compliance Monitoring [326 IAC 2-1.1-11]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

C.12 Monitoring Methods [326 IAC 3]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.

C.13 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 1-6]

(a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. This compliance monitoring plan is comprised of:

(1) This condition;

(2) The Compliance Determination Requirements in Section D of this permit;

(3) The Compliance Monitoring Requirements in Section D of this permit;

(4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and

(5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRP's shall be submitted to IDEM, OAM upon request and shall be subject to review and approval by IDEM, OAM. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee and maintained on site, and is comprised of :

(A) Response steps that will be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and

(B) A time schedule for taking such response steps including a schedule for devising additional response steps for situations that may not have been predicted.

(b) For each compliance monitoring condition of this permit, appropriate response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to perform the actions detailed in the compliance monitoring conditions or failure to take the response steps within the time prescribed in the Compliance Response Plan, shall constitute a violation of the permit unless taking the response steps set forth in the Compliance Response Plan would be unreasonable.

(c) After investigating the reason for the excursion, the Permittee is excused from taking further response steps for any of the following reasons:

(1) The monitoring equipment malfunctioned, giving a false reading. This shall be an excuse from taking further response steps providing that prompt action was taken to correct the monitoring equipment.

(2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied or;

(3) An automatic measurement was taken when the process was not operating; or

(4) The process has already returned to operating within "normal" parameters and no response steps are required.

(d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken.

C.14 Actions Related to Noncompliance Demonstrated by a Stack Test

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAM, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected emissions unit while the corrective actions are being implemented. IDEM, OAM shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM, OAM within thirty (30) days of receipt of the notice of deficiency. IDEM, OAM reserves the authority to use enforcement activities to resolve noncompliant stack tests.

(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAM that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAM may extend the retesting deadline. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected emissions unit.

The documents submitted pursuant to this condition do not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

**Record Keeping and Reporting Requirements**

C.15 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

(a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM) or appointed representative upon request.

(b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAM, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.

(c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).

(d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.16 Monitoring Data Availability [326 IAC 2-6.1-2] [IC 13-14-1-13]

(a) With the exception of performance tests conducted in accordance with Section C-Performance Testing, all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.

(b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.

(c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.

(d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.

(e) At its discretion, IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.

(f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements stated in (a) above.

C.17 General Record Keeping Requirements [326 IAC 2-6.1-2]

(a) Records of all required monitoring data and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years and available upon the request of an IDEM, OAM, representative. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

(b) Records of required monitoring information shall include, where applicable:

(1) The date, place, and time of sampling or measurements;

(2) The dates analyses were performed;

(3) The company or entity performing the analyses;

(4) The analytic techniques or methods used;

(5) The results of such analyses; and

(6) The operating conditions existing at the time of sampling or measurement.

(c) Support information shall include, where applicable:

(1) Copies of all reports required by this permit;

(2) All original strip chart recordings for continuous monitoring instrumentation;

(3) All calibration and maintenance records;

(4) Records of preventive maintenance shall be sufficient to demonstrate that failure to implement the Preventive Maintenance Plan did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C - Compliance Monitoring Plan - Failure to take Response Steps, of this permit, and whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.

(d) All record keeping requirements not already legally required shall be implemented when operation begins.

C.18 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

(a) To affirm that the source has met all the compliance monitoring requirements stated in

this permit the source shall submit a Semi-annual Compliance Monitoring Report. Any deviation from the requirements and the date(s) of each deviation must be reported. The Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

(c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, on or before the date it is due.

(d) Unless otherwise specified in this permit, any report shall be submitted within thirty (30) days of the end of the reporting period. The report does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(e) All instances of deviations must be clearly identified in such reports. A reportable deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:

(1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or

(2) A malfunction as described in 326 IAC 1-6-2; or

(3) Failure to implement elements of the Preventive Maintenance Plan unless lack of maintenance has caused or contributed to a deviation.

(4) Failure to make or record information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter.

A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred or failure to monitor or record the required compliance monitoring is a deviation.

(f) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.

(g) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

C.19 Annual Notification [326 IAC 2-6.1-5(a)(5)]

(a) Annual notification shall be submitted to the Office of Air Management stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.

(b) Noncompliance with any condition must be specifically identified. If there are any permit conditions or requirements for which the source is not in compliance at any time during the year, the Permittee must provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be, achieved. The notification must be signed by an authorized individual.

(c) The annual notice shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in the format attached no later than March 1 of each year to:

Compliance Data Section, Office of Air Management
Indiana Department of Environmental Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, IN 46206-6015

(d) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, on or before the date it is due.

**SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS**

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|---|---|
| (a) | one (1) 40 ton/hr pellet mill, designated as unit 3A; |
| (b) | one (1) 40 ton/hr pellet cooler, designated as unit 3B, controlled by multiple cyclones and exhausting to a stack designated as 03; |
| (c) | one (1) 35 ton/hr hammermill, designated as unit 2B. |
| (d) | one (1) receiving unit with a maximum capacity of 200 ton/hr, designated as unit 1; |
| (e) | one (1) pneumatic receiving and storage system designated unit 7. |
| (f) | one (1) 25 ton/hr hammermill, designated as unit 2A; |
| (g) | one (1) pellet distributor with a maximum throughput of 40 tons per hour, designated as unit 4 and exhausting to a stack designated 04; and |
| (h) | one (1) feed pellet truck loadout unit. |

**Emission Limitations and Standards**

D.1.1 Particulate Matter (PM) [326 IAC 6-3-2(c)]

The PM from the animal feed production facilities combined shall not exceed 42.53 pounds per hour established as E in the following formula based on a process weight rate of 40 tons per hour:

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 55.0\ P^{0.11} - 40$ where E = rate of emission in pounds per hour; and P = process weight rate in tons per hour

The applicable emission rate limitations for the individual emission points of the process line shall be as follows:

| Operation | applicable emission rate limit (lb/hr) |
|---|---|
| receiving | 23.63 |
| pneumatic receiving | 2.36 |
| pellet cooler | 4.73 |
| mixed feed distributor | 4.73 |
| load out | 7.09 |

D.1.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section C - Preventive Maintenance Plan, of

this permit, is required for these emissions units and any control devices.

**Compliance Determination Requirements**

D.1.3 Testing Requirements [326 IAC 2-1.1-11]

The Permittee is not required to test these emissions units by this permit. However, IDEM may require compliance testing when necessary to determine if the emissions units are in compliance. If testing is required by IDEM, compliance with the particulate matter (PM) limit specified in Condition D.1.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

**Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [ 326 IAC 2-6.1-5(a)(2)]**

D.1.4 Particulate Matter (PM)

The particulate matter (PM) emissions from the receiving, pneumatic receiving, hammermills, mixed feed distributor and loadout area shall comply with the following at all times when the units are operating:

(a) good housekeeping and equipment maintenance procedures are implemented.

(b) emissions are minimized by appropriate methods. These may include but need not be limited to, dust collection systems, windscreens, baffles, restricted hopper openings, enclosed transfer points, flexible drop spouts and/or sleeves,

(c) there is no visible accumulation of particulate matter beyond the plant property line, and

(d) emissions do not violate 326 IAC 6-4 (Fugitive Dust Emissions).

D.1.5 Particulate Matter (PM)

The cyclones for PM control shall be in operation at all times when the pellet cooler is operating and exhausting to the outside atmosphere.

D.1.6 Visible Emissions Notations

(a) Visible emission notations of the pellet cooler stack exhaust shall be performed once per working shift during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

**Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [ 326 IAC 2-6.1-5(a)(2)]**

D.1.7 Record Keeping Requirements

(a) To document compliance with Condition D.1.1 and D.1.5, the Permittee shall maintain records of the results of the visible emission notations required under Condition D.1.5.

(b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements.

## SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

| | |
|---|---|
| (i) | one (1) column grain dryer with a 0.18 million Btu per hour burner firing propane and a maximum capacity of 3600 bushels per hour. |

### Emission Limitations and Standards

D.2.1 Particulate Matter (PM) [326 IAC 6-3-2(c)]

The PM from the grain dryer shall not exceed 51.07 pounds per hour established as E in the following formula based on a process weight rate of 98 tons per hour:

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 55.0\ P^{0.11} - 40$ where E = rate of emission in pounds per hour; and P = process weight rate in tons per hour

D.2.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section C - Preventive Maintenance Plan, of this permit, is required for this emissions unit.

### Compliance Determination Requirements [326 IAC 2-5.1-3(e)(2)] [ 326 IAC 2-6.1-5(a)(2)]

D.2.3 Testing Requirements [326 IAC 2-1.1-11]

The Permittee is not required to test this emissions unit by this permit. However, IDEM may require compliance testing when necessary to determine if the emissions unit are in compliance. If testing is required by IDEM, compliance with the particulate matter (PM) limit specified in Condition D.2.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

**SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS**

| | |
|---|---|
| (j) | one (1) propane fired boiler designated as unit 5 with a maximum heat input capacity of 8.37 million British thermal units per hour exhausting through stack 05. |

**Emission Limitations and Standards**

D.3.1 Particulate Matter Limitation (PM) [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4(a) (Particulate emission limitations for sources of indirect heating: emission limitations for facilities specified in 326 IAC 6-2-1 (d)), particulate emissions from this facility used for indirect heating purposes which was constructed after September 21, 1983, shall in no case exceed 0.6 pounds of particulate matter per million British thermal units heat input.

**Compliance Determination Requirements**

D.3.2 Testing Requirements [326 IAC 2-1.1-11]

The Permittee is not required to test this emissions unit by this permit. However, IDEM may require compliance testing when necessary to determine if the emissions unit is in compliance. If testing is required by IDEM, compliance with the particulate matter (PM) limit specified in Condition D.3.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**
**OFFICE OF AIR MANAGEMENT**
**COMPLIANCE DATA SECTION**

# MINOR SOURCE OPERATING PERMIT ANNUAL NOTIFICATION

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

| | |
|---|---|
| **Company Name:** | **Tyson Foods, Inc. - Ramsey Feed Mill** |
| **Address:** | **State Road 64** |
| **City:** | **Ramsey, Indiana 47166** |
| **Phone #:** | **812-738-5800** |
| **MSOP #:** | **061-11352-00010** |

I hereby certify that Tyson Foods, Inc. - Ramsey Feed Mill is:

**9** still in operation.
**9** no longer in operation.

I hereby certify that Tyson Foods, Inc. - Ramsey Feed Mill is:

**9** in compliance with the requirements of MSOP 061-11352-00010.
**9** not in compliance with the requirements of MSOP 061-11352-00010.

| |
|---|
| **Authorized Individual (typed):** |
| **Title:** |
| **Signature:** |
| **Date:** |

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

| |
|---|
| **Noncompliance:** |
| |
| |
| |
| |
| |

## MALFUNCTION REPORT

### INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
### OFFICE OF AIR MANAGEMENT
**FAX NUMBER - 317 233-5967**

**This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.**

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?_____, 25 TONS/YEAR SULFUR DIOXIDE ?_____, 25 TONS/YEAR NITROGEN OXIDES?_____, 25 TONS/YEAR VOC ?_____, 25 TONS/YEAR HYDROGEN SULFIDE ?_____, 25 TONS/YEAR TOTAL REDUCED SULFUR ?_____, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?_____, 25 TONS/YEAR FLUORIDES ?_____, 100TONS/YEAR CARBON MONOXIDE ?_____, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?_____, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?_____, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?_____, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?_____. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION _____.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC _____ OR, PERMIT CONDITION # _____ AND/OR PERMIT LIMIT OF _____

THIS INCIDENT MEETS THE DEFINITION OF 'MALFUNCTION' AS LISTED ON REVERSE SIDE ? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ? Y N

COMPANY:_____PHONE NO. ( )_____
LOCATION: (CITY AND COUNTY)_____
PERMIT NO. _____ AFS PLANT ID: _____ AFS POINT ID: _____
INSP:_____
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND
REASON:_____
_____ _____

DATE/TIME MALFUNCTION STARTED: _____/_____/____ _____ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION:
_____

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE_____/_____/____ _____ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER:_____

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

_____

MEASURES TAKEN TO MINIMIZE EMISSIONS:_____

_____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES:_____
CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS:_____
CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT:_____
INTERIM CONTROL MEASURES: (IF APPLICABLE)_____
_____
_____

MALFUNCTION REPORTED BY:_____TITLE:_____
(SIGNATURE IF FAXED)
MALFUNCTION RECORDED BY:_____DATE:_____TIME:_____

*SEE PAGE 2



**Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for**

**the exemption under 326 IAC 1-6-4.**

**326 IAC 1-6-1 Applicability of rule**

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

**326 IAC 1-2-39 "Malfunction" definition**

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

***Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

_____

_____

# Indiana Department of Environmental Management
# Office of Air Management

Addendum to the
Technical Support Document for New Construction and
Minor Source Operating Permit (MSOP)

| | |
|---|---|
| Source Name: | Tyson Foods, Inc. - Ramsey Feed Mill |
| Source Location: | State Road 64, Ramsey, Indiana 47166 |
| County: | Harrison |
| SIC Code: | 2048 |
| Operation Permit No.: | 061-11352-00010 |
| Permit Reviewer: | Janusz Johnson |

On February 16, 2000, the Office of Air Management (OAM) had a notice published in the Corydon Democrat, Corydon, Indiana, stating that Tyson Foods, Inc., had applied for a permit to modify and operate the facilities at the Ramsey Feed Mill. The notice also stated that OAM proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

Upon further review, the OAM has decided to make the following typographical correction to the permit (bolded language has been added, the language with a line through it has been deleted).

1. Condition D.3.2 on Page 20 of the permit has been revised as follows to refer to the correct emission limiting condition:

D.3.2 Testing Requirements [326 IAC 2-1.1-11]
The Permittee is not required to test this emissions unit by this permit. However, IDEM may require compliance testing when necessary to determine if the emissions unit is in compliance. If testing is required by IDEM, compliance with the particulate matter (PM) limit specified in Condition ~~D.3.4~~ **D.3.1** shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

# Indiana Department of Environmental Management
# Office of Air Management

## Technical Support Document (TSD) for New Construction and Minor Source Operating Permit

**Source Background and Description**

**Source Name:** **Tyson Foods, Inc. - Ramsey Feed Mill**
**Source Location:** **State Road 64, Ramsey, Indiana 47166**
**County:** **Harrison**
**SIC Code:** **2048**
**Operation Permit No.:** **061-11352-00010**
**Permit Reviewer:** **Janusz Johnson**

The Office of Air Management (OAM) has reviewed an application from Tyson Foods, Inc., relating to the modification of facilities at the Ramsey Feed Mill.

The existing pellet line consisting of a pellet mill (Unit 3A) and a pellet cooler (Unit 3B) shall be expanded to increase the maximum capacity from 30 tons per hour to 40 tons per hour. The revised unit descriptions will be as follows:

(a) one (1) 40 ton/hr pellet mill, designated as unit 3A;

(b) one (1) 40 ton/hr pellet cooler, designated as unit 3B, controlled by multiple cyclones and exhausting to a stack designated as 03;

Additionally, Tyson Foods, Inc., has requested to increase the maximum permitted capacity of the existing hammermill 2B from 25 tons per hour to 35 tons per hour. The revised unit description will be as follows:

(c) one (1) 35 ton/hr hammermill, designated as unit 2B.

**Permitted Emission Units and Pollution Control Equipment**

The source consists of the following other permitted emission units and pollution control devices permitted under the former source name of Hudson Foods:

(d) one (1) receiving unit with a maximum capacity of 200 ton/hr, designated as unit 1;

(e) one (1) pneumatic receiving and storage system designated unit 7.

(f) one (1) 25 ton/hr hammermill, designated as unit 2A;

(g) one (1) pellet distributor with a maximum throughput of 40 tons per hour, designated as unit 4 and exhausting to a stack designated 04;

(h) one (1) feed pellet truck loadout unit;

(i) one (1) column grain dryer with a 0.18 million Btu per hour burner firing propane and a maximum capacity of 3600 bushels per hour; and

(j) one (1) propane fired boiler designated as unit 5 with a maximum heat input capacity of 8.37 million British thermal units per hour exhausting through stack 05.

**Unpermitted Emission Units and Pollution Control Equipment**

There are no unpermitted facilities operating at this source during this review process.

**Existing Approvals**

The source has been operating under previous approvals including, but not limited to, the following:

(a) OP 31-05-92-0069, issued on July 20, 1989; and

(b) CP-061-9167-00010, issued on March 26,1998.
Note: This construction permit for various operations at the animal feed mill included the replacement of the existing pellet mill and pellet cooler (Units 3A and 3B) with new units capable of 60 tons per hour of throughput. These replacement units were never constructed.

All conditions from previous approvals were incorporated into this permit with the exception of the following:

(1) the particulate matter limitation in Condition D.1.1 of CP-061-9167-00010 has been revised to better reflect the appropriate 326 IAC 6-3-2 PM limits associated with the facilities existing at the plant.

(2) the compliance monitoring provisions in Conditions D.1.4, D.1.5 and D.1.6 of CP-061-9167-00010 have been revised to be consistent with the changes to the limiting requirements of Condition D.1.1 (above). It was determined that only the controls for the pellet cooling operation were required to be operated to demonstrate compliance with 326 IAC 6-3-2. The other facilities require good work practice only.

(3) the compliance monitoring provisions in Conditions D.1.7 and D.1.8 of CP-061-9167-00010 were removed because it was determined that the baghouses were not required to demonstrate compliance with 326 IAC 6-3-2.

**Stack Summary**

| Stack ID | Operation | Height (feet) | Diameter (feet) | Flow Rate (acfm) | Temperature ($^0$F) |
|---|---|---|---|---|---|
| 01 | receiving leg baghouse | 148.5 | 1 | 4500 | ambient |
| 02 | hammermills baghouse | 138.5 | 1 | 4500 | ambient |
| 03 | pellet cooler cyclones | 28 | 1x 2 | 16,000 | ambient |
| 04 | mash leg and distributor baghouse | 138.5 | 1.0 | 4500 | ambient |
| 05 | boiler | 53 | 1.2 | 2000 | 180 |
| 06 | grain dryer | 90.2 | N.A. | 367 | ambient |
| 07 | pneumatic receiving/storage | 50 | 1 | 4500 | ambient |

**Enforcement Issue**

There are no enforcement actions pending.

**Recommendation**

The staff recommends to the Commissioner that the construction and operation be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on September 17, 1999, with additional information received on September 27 and November 30, 1999.

**Emission Calculations**

See Appendix A of this document for detailed emissions calculations (3 pages).

**Potential To Emit**

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, the department, or the appropriate local air pollution control agency."

| Pollutant | Potential To Emit (tons/year) |
|---|---|
| PM | 174.1 |
| PM-10 | 63.9 |
| $SO_2$ | 0 |
| VOC | 0.2 |
| CO | 1.3 |
| $NO_x$ | 7.8 |

(a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of particulate matter (PM) and particulate matter 10 microns (PM10) are equal to or greater than 25 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-6.1 (Minor Source Operating Permit Program).

**County Attainment Status**

The source is located in Harrison County.

| Pollutant | Status |
|---|---|
| PM-10 | attainment |
| $SO_2$ | attainment |
| $NO_2$ | attainment |
| Ozone | attainment |
| CO | attainment |
| Lead | attainment |

(a) Volatile organic compounds (VOC) and oxides of nitrogen (NOx) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule

applicability relating to the ozone standards. Harrison County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.

(b) Harrison County has been classified as attainment or unclassifiable for all other regulated air pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.

(c) Fugitive Emissions
Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2, 40 CFR 52.21, or 326 IAC 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

**Source Status**

Existing Source PSD, Part 70 or FESOP Definition (emissions after controls, based on 8,760 hours of operation per year at rated capacity and/ or as otherwise limited):

| Pollutant | Emissions (ton/yr) |
|---|---|
| PM | 52.9 |
| PM10 | 21.6 |
| $SO_2$ | 6.3 |
| VOC | 0.0 |
| CO | 0.1 |
| $NO_x$ | 0.6 |

(a) This existing source is **not** a major stationary source because no attainment regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not in one of the 28 listed source categories.

(b) These emissions were based on CP-061-9167 issued on March 26,1998.

**Proposed Modification**

PTE from the proposed modification (based on 8,760 hours of operation per year at rated capacity including enforceable emission control and production limit, where applicable):

| Pollutant | PM (ton/yr) | PM10 (ton/yr) | $SO_2$ (ton/yr) | VOC (ton/yr) | CO (ton/yr) | $NO_x$ (ton/yr) |
|---|---|---|---|---|---|---|
| Proposed Modification | 64.9 | 33.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| PSD Threshold Level | 250 | 250 | 250 | 250 | 250 | 250 |

This modification to an existing minor stationary source is not major because the emission increase is less than the PSD significant levels. Therefore, pursuant to 326 IAC 2-2, and 40 CFR 52.21, the PSD requirements do not apply.

**Limited Potential to Emit**

The table below summarizes the total potential to emit of the source, reflecting all limits, of the significant emission units. These emissions were based on calculations using updated emission factors from Section 9.9.1 of AP-42 as revised in the Fifth Edition Supplement D dated May, 1998. The pellet line was assumed to bottleneck the other operations, with the exception of the grain dryer, to 40 tons per hour.

| | Limited Potential to Emit (tons/year) | | | | | | |
|---|---|---|---|---|---|---|---|
| Process/facility | PM | PM-10 | $SO_2$ | VOC | CO | $NO_X$ | HAPs |
| Receiving | 3.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Drying | 94.4 | 23.6 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 |
| Handling | 10.7 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hammermilling | 2.1 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Boiler | 0.2 | 0.2 | 0.0 | 0.2 | 1.3 | 7.6 | 0.0 |
| Pellet Line * | 3.2 * | 1.6 * | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Shipping | 0.6 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Emissions | 114.2 | 34.0 | 0.0 | 0.2 | 1.3 | 7.8 | 0.0 |

* includes multiple cyclone controls (95%) required for compliance with 326 IAC 6-3.

**Part 70 Permit Determination**

326 IAC 2-7 (Part 70 Permit Program)

This existing source, including the emissions from this permit CP-061-11352-00010, is still not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

(a) each criteria pollutant is less than 100 tons per year,
(b) a single hazardous air pollutant (HAP) is less than 10 tons per year, and
(c) any combination of HAPs is less than 25 tons/year.

This status is based on all the air approvals issued to the source. This status has been verified by the OAM inspector assigned to the source.

**Federal Rule Applicability**

(a) There are no New Source Performance Standards (326 IAC 12) 40 CFR Part 60 applicable to the source. Specifically, 40 CFR Part 60 Subpart DD (grain elevators) does not apply to the source because the storage capacity of corn is less than 2.5 million bushels.

(b) There are no NESHAP 40 CFR Part 63 applicable to these facilities.

**State Rule Applicability**

326 IAC 1-6-3 (Preventive Maintenance):

(c) The Permittee shall prepare and maintain Preventive Maintenance Plans (PMP) within ninety (90) days after issuance of this permit, including the following information on each:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission units;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions;

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

(b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that lack of proper maintenance does not cause or contribute to a violation of any limitation on emissions or potential to emit.

(c) PMP's shall be submitted to IDEM and OAM upon request and shall be subject to review and approval by IDEM and OAM.

326 IAC 5-1 (Visible Emissions Limitations)

Pursuant to 326 IAC 5-1-2 (Visible Emissions Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following, unless otherwise stated in this permit:

(a) Visible emissions shall not exceed an average of forty percent (40%) opacity in twenty-four (24) consecutive readings, as determined in 326 IAC 5-1-4.

(b) Visible emissions shall not exceed sixty percent (60%) opacity for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) in a six (6) hour period.

326 IAC 6-2-4 (Particulate emission limitations for sources of indirect heating)

Particulate emissions from indirect heating facilities constructed after September 21, 1983 shall be limited by the following equation:

$Pt = 1.09/Q^{0.26}$ where: Q = total source maximum operating capacity rating in million Btu per hour (MMBtu/hr) heat input.
Pt = Pounds of particulate matter emitted per million Btu heat input.

For Q less than 10 MMBtu/hr, Pt shall not exceed 0.6 lb/MMBtu.

The PM emission factor for the 8.55 MMBtu/hr propane fired boiler is 0.6 lb/1000 gallons of fuel. Based on a average fuel heat content of 94,000 Btu/gallon, the calculated PM emission rate (lb/MMBtu) for the boiler is:

PM (lb/MMBtu) = 0.6 lb PM/1000 gallons fuel * 1 gallon/94,000 Btu * $10^6$ Btu/MMBtu
= 0.0064 lb/MMBtu

The boiler can comply with the rule.

326 IAC 6-3-2(c) (Process Operations):

Pursuant to 326 IAC 6-3 (Process Operations):

(a) The facilities shall comply with 326 IAC 6-3-2(c) using the following equation:

E = 55.0 * P^0.11 - 40 where: E = rate of emission in pounds per hour,
P = process weight in tons per hour

The emission rate limitations for the process facilities are outlined in the following table. The receiving, pneumatic receiving, hammermills, mixed feed distributor, pellet line and loadout are considered combined as a single process pursuant to 326 IAC 1-2-58 ("Process" defined). The applicable process limit for these combined facilities shall be distributed to individual process points based on the maximum potential throughput of each step in the process. The grain dryer is considered to be a separate process in and of itself.

| Operation | Individual facility maximum throughput (ton/hr) | feed mill process weight rate [bottleneck] (ton/hr) | applicable emission rate limit (lb/hr) | PM PTE before controls (lb/hr) | PM PTE after required controls (lb/hr) |
|---|---|---|---|---|---|
| **Total process** | **-** | **40** | **42.53** | - | - |
| receiving | 200.00 | - | **23.63** | 3.40 | - |
| pneumatic receiving | 20 | - | **2.36** | 0.34 | - |
| pellet cooler | 40 | - | **4.73** | 14.40 | 0.72 |
| mixed feed distributor | 40 | - | **4.73** | 2.44 | - |
| load out | 60 | - | **7.09** | 0.20 | - |
| grain dryer | 98 | N.A. | **51.07** | 21.56 | - |

(b) The cyclones for particulate matter control shall be in operation at all times when the pellet line cooler is in operation. The other facilities do not require the operation of control equipment to comply with this rule because the PTE particulate matter before controls is less than the applicable limited emission rates for these emission units.

(c) That visible emission notations of the exhaust to the atmosphere from the pellet line cyclones shall be performed once per working shift. A trained employee will record whether emissions are normal or abnormal.

1. For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, 80% of the time, the process is in operation, not counting start up or shut down time.

2. In the case of batch or discontinuous operation, readings shall be taken during that part of the operation specified in the facility's specific condition prescribing visible emissions.

3. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal and abnormal visible emissions for that specific process.

(d) The Preventive Maintenance Plan for this facility shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

(e) Particulate Matter Limitations:
That particulate matter (PM) emissions from the other facilities shall be considered in compliance provided that:

1. good housekeeping and equipment maintenance procedures are implemented.

2. emissions are minimized by appropriate methods. These may include but need not be limited to, dust collection systems, windscreens, baffles, restricted hopper openings, enclosed transfer points, flexible drop spouts and/or sleeves,

3. no visible accumulation of particulate matter beyond the plant property line, and

4. emissions do not violate 326 IAC 6-4 (Fugitive Dust Emissions).

(f) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

**Conclusion**

The construction of the hammermill and pellet line modifications and the operation of this animal feed mill shall be subject to the conditions of the attached proposed **New Source Construction and Minor Source Operating Permit 061-11352-00010.**

**Appendix A: Emission Calculations**
**LPG-Propane - Commercial Boilers**
**(Heat input capacity: > 0.3 MMBtu/hr and < 10 MMBtu/hr)**

**Company Name:** Tyson Foods, Inc. - Ramsey Feed Mill
**Address City IN Zip:** S.R. 64, Ramsey, Indiana
**CP:** 061-11352
**Plt ID:** 061-00010
**Reviewer:** Janusz Johnson
**Date:** 11/04/99

***Propane combustion emissions from grain dryer burner (0.18 MMBtu/hr) and boiler (8.37 MMBtu/hr)***

| Heat Input Capacity MMBtu/hr | Potential Throughput kgals/year | SO2 Emission factor = 0.10 x S<br>S = Sulfur Content = 0.18 grains/100ft^3 |
|---|---|---|
| 8.55 | 818.56 | |

| | Pollutant | | | | | |
|---|---|---|---|---|---|---|
| | PM* | PM10* | SO2 | NOx | VOC | CO |
| Emission Factor in lb/kgal | 0.6 | 0.6 | 0.0<br>*(0.10S)* | 19.0 | 0.5<br>**TOC value | 3.2 |
| Potential Emission in tons/yr | 0.2 | 0.2 | 0.0 | 7.8 | 0.2 | 1.3 |

*PM emission factor is filterable PM only. PM10 emission factor is assumed to be the same as PM based on a footnote in Table 1.5-1, therefore PM10 is filterable only as well.
**The VOC value given is TOC. The methane emission factor is 0.2 lb/kgal.

**Methodology**

1 gallon of LPG has a heating value of 94,000 Btu
1 gallon of propane has a heating value of 91,500 Btu (use this to convert emission factors to an energy basis for propane)
(Source - AP-42 (Supplement B 10/96) page 1.5-1)
Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.0915 MMBtu

Emission Factors are from AP42 (Supplement B 10/96), Table 1.5-1 (SCC #1-02-010-02)

Emission (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal) / 2,000 lb/ton lpgpi.wk4 9/95kaw
Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included). updated 4/99

**Appendix A: Emissions Calculations**
**Grain Processing Operations**
**Company Name: Tyson Foods, Inc. - Ramsey Feed Mill**
**Address City IN Zip: S.R. 64, Ramsey, Indiana**
**CP: 061-11352**
**Plt ID: 061-00010**
**Reviewer: Janusz Johnson**
**Date: 11/04/99**

***Potential to Emit from modified pelleting line (Units 3A&3B) and increased capacity of hammermill 2B from 25 to 35 tons per hour.***

| Increased capacity of Hammermill 2B | modified pellet line Units 3A & 3B |
|---|---|
| **GRAIN THROUGHPUT (TON/HR)** | |
| **35.00** | **40.00** |

| | PARTICULATE MATTER | |
|---|---|---|
| | Grinding Hammermilling | Pellet Cooler |
| Emission Factors in lb/ton | | |
| PM | 1.20E-02 | 3.60E-01 |
| PM10 | 1.20E-02 | 1.80E-01 |
| Potential Emissions in lb/hr | | |
| PM | 0.42 | 14.40 |
| PM10 | 0.42 | 7.20 |
| Potential Emissions in lb/day | | |
| PM | 10.08 | 345.60 |
| PM10 | 10.08 | 172.80 |
| Potential Emissions in ton/yr | | |
| PM | 1.84 | 63.07 |
| PM10 | 1.84 | 31.54 |

| **Total Modification PTE** | |
|---|---|
| **PM** | **64.91** |
| **PM10** | **33.38** |

**Methodology**
Emission factors are from AP 42 Table 9.9.1-2 and Table 9.9.1-3 Total Particulate Emission Factors for Uncontrolled Grain Processing Operations
Grain Throughput (ton/hr) = Grain received (bu/hr)*Weight of Bushel (lb/bu)*ton/2000 lb
Potential Emissions in lb/hr = Throughput (ton/hr) * EF (lb/ton)
Potential Emissions in lb/day = PE (lb/hr) * 24 hours/day
Potential Emissions in ton/yr = PE (lb/day) * 365 (days/year)/2000 (lb/ton)

**Appendix A: Emissions Calculations**
**Grain Processing Operations**
**Company Name: Tyson Foods, Inc. - Ramsey Feed Mill**
**Address City IN Zip: S.R. 64, Ramsey, Indiana**
**CP: 061-11352**
**Plt ID: 061-00010**
**Reviewer: Janusz Johnson**
**Date: 11/04/99**

***Potential to Emit from entire source (including new pellet line and hammermill increase)***

| GRAIN THROUGHPUT | | |
|---|---|---|
| Corn (bu/hr) | Bean (bu/hr) | Wheat (bu/hr) |
| 1428.50 | 0 | 0 |
| 56 lb/bu | 56 lb/bu | 60 lb/bu |
| Corn (lb/hr) | Bean (lb/hr) | Wheat (lb/hr) |
| 79996.00 | 0 | 0 |
| Corn (ton/hr) | Bean (ton/hr) | Wheat (ton/hr) |
| 40.00 | 0 | 0 |
| **GRAIN THROUGHPUT (TON/HR)** | | |
| **40.00** | | |

***NOTE: While some of the process operations have maximum capabilities of greater than 40 tons per hour , the PTE for these facilities has been determined based on the 40 tons per hour maximum capacity of the pelleting operations which is a bottleneck in the process. The grain dryer (*) can operate independent of the other process steps and is not considered to be bottlenecked.***

| | PARTICULATE MATTER | | | | | |
|---|---|---|---|---|---|---|
| | Receiving | Shipping Feed | Drying * [98 tons/hr] | Handling | Grinding Hammermilling | Pellet Coolers |
| Emission Factors in lb/ton | | | | | | |
| PM | 1.70E-02 | 3.30E-03 | 2.20E-01 | 6.10E-02 | 1.20E-02 | 3.60E-01 |
| PM10 | 2.50E-03 | 8.00E-04 | 5.50E-02 | 3.40E-02 | 1.20E-02 | 1.80E-01 |
| Potential Emissions in lb/hr | | | | | | |
| PM | 0.68 | 0.13 | 21.56 | 2.44 | 0.48 | 14.40 |
| PM10 | 0.10 | 0.03 | 5.39 | 1.36 | 0.48 | 7.20 |
| Potential Emissions in lb/day | | | | | | |
| PM | 16.32 | 3.17 | 517.44 | 58.56 | 11.52 | 345.58 |
| PM10 | 2.40 | 0.77 | 129.36 | 32.64 | 11.52 | 172.79 |
| Potential Emissions in ton/yr | | | | | | |
| PM | 2.98 | 0.58 | 94.43 | 10.69 | 2.10 | 63.07 |
| PM10 | 0.44 | 0.14 | 23.61 | 5.96 | 2.10 | 31.53 |

| **Total PTE** | |
|---|---|
| **PM** | **173.85** |
| **PM10** | **63.78** |

**Methodology**
Emission factors are from AP 42 Table 9.9.1-2 and Table 9.9.1-3 Total Particulate Emission Factors for Uncontrolled Grain Processing Operations
Grain Throughput (ton/hr) = Grain received (bu/hr)*Weight of Bushel (lb/bu)*ton/2000 lb
Potential Emissions in lb/hr = Throughput (ton/hr) * EF (lb/ton)
Potential Emissions in lb/day = PE (lb/hr) * 24 hours/day
Potential Emissions in ton/yr = PE (lb/day) * 365 (days/year)/2000 (lb/ton)